Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 598

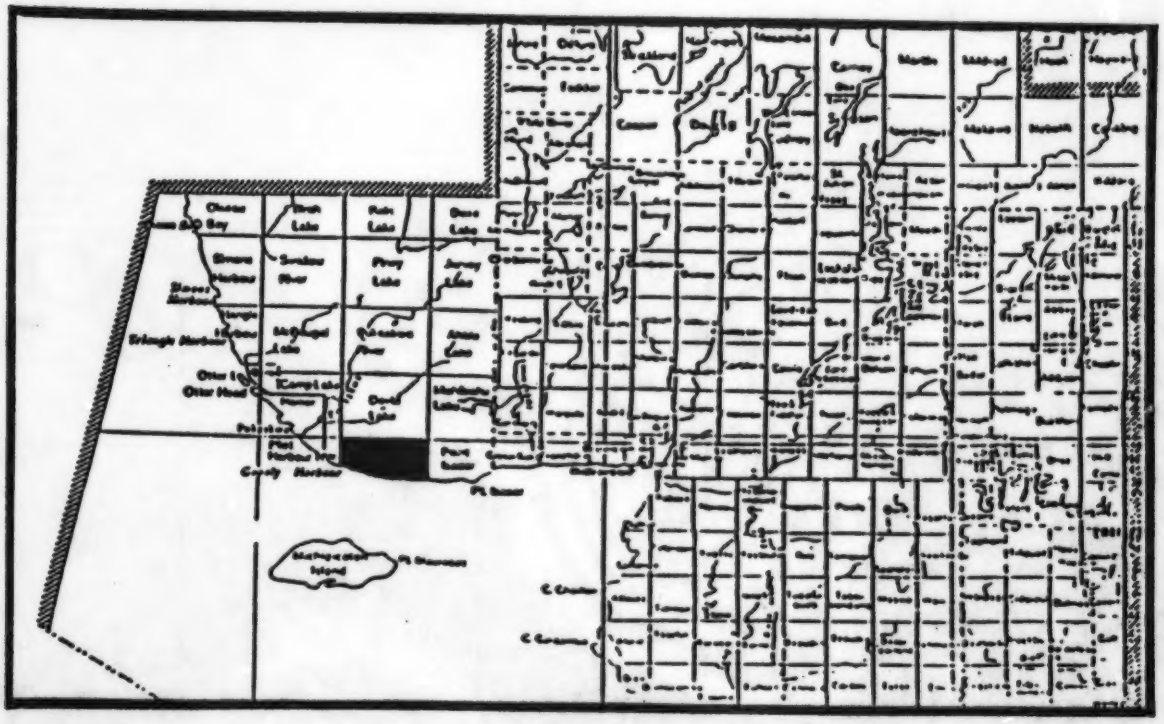
PILOT HARBOUR NE AREA

Sault Ste. Marie Mining Division

N.T.S. No. 41N/13NE

Compiled by the staff of
the Resident Geologist's Office

WAWA



LOCATION MAP

Mining Claim Map Number M-20

This project was funded by the Northern Development Fund, Wawa Economic Development Initiatives.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Wawa Resident Geologist's Office, 1991. Pilot Harbour NE Area, Geological Data Inventory Folio 598; compiled by the staff of the Resident Geologist's Office, Wawa.

Original Compilation by: Howson, Tim, 1986.

Date	Page(s) Revised	Revised by
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*		

Date	Page(s) Revised	Revised by

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ACCOMPANYING MAPS (see map legends on outside back cover).

A. Files Index Map (s) ..... Map A-1, A-2

B. Exploration Data Map (s) ..... Map B-1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report
OFM	Open File Map
OCRS	Ontario Centre for Remote Sensing
CCRS	Canada Centre for Remote Sensing
WRGO	Wawa Resident Geologist's Office

*

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	T.H.
2	Assessment Files Research Office, Toronto	Yes	T.H.
3	OGS/ODM General Index	Yes	T.H.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	T.H.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	T.H.
6	ODM Industrial Mineral Reports	No	T.H.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	T.H.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	T.H.
9	Newspaper Clippings File	Yes	T.H.
10	GSC Index to Publications	Yes	T.H.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	T.H.
12	OGS Index Maps	Yes	T.H.
13	Source Mineral Deposit Records (OGS)	No	T.H.
14	Author - Subject Articles File	Yes	T.H.
15	ODM/OGS Miscellaneous Papers	Yes	T.H.
16	ODM Geological Circulars	No	T.H.
17	OGS Study Series	No	T.H.
18	ODM Preliminary Reports	No	T.H.
19	ODM Bulletins	No	T.H.
20	ODM/OGS Open File Reports	Yes	T.H.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	Yes	T.H.
22	OGS Aggregate Resources Inventory Papers	No	T.H.
23	OGS Mineral Potential Maps	Yes	T.H.
24	Drill Core Library Catalogue	No	T.H.

*

MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite
ank ..... Ankerite
ap ..... Apatite
arg ..... Argentite
As ..... Arsenic
asp ..... Arsenopyrite
asb ..... Asbestos
ba ..... Barite
be ..... Beryl
Bi ..... Bismuth
bn ..... Bornite
Cd ..... Cadmium
calc ..... Calcite
carb ..... Carbonate
cc ..... Chalcocite
▲cp ..... Chalcopyrite
ch ..... Chert
clay ..... Clay
Co ..... Cobalt
cob ..... Cobaltite
Cu ..... Copper
cor ..... Corundum
dol ..... Dolomite
ep ..... Epidote
fel ..... Feldspar
fl ..... Fluorite (flurospar)
fu. ..... Fuchsite
gn. ..... Galena
gt. ..... Garnet
goe ..... Goethite
▲Au ..... Gold
gf ..... Graphite

gl ..... Gravel
gyp ..... Gypsum
hem ..... Hematite
Fe ..... Iron
▲IF ..... Iron Formation
jas ..... Jasper
ky ..... Kyanite
Pb ..... Lead
lim ..... Limonite
Li ..... Lithium
mgst ..... Magnesite
mag ..... Magnetite
mc ..... Malachite
Mn ..... Manganese
mb ..... Marble
mar ..... Marcasite
ma ..... Marl
mi ..... Mica
mo ..... Molybdenite
Mo ..... Molybdenum
mon ..... Monazite
ne .... Nephelite (nepheline)
Ni ..... Nickel
Nb ..... Niobium
Pd ..... Palladium
pent ..... Pentlandite
Pt ..... Platinum
py ..... Pyrite
pyl ..... Pyrochlore
po ..... Pyrrhotite
q ..... Quartz
qcv .. Quartz carbonate vein

ra ..... Radioactive minerals
RE ..... Rare Earths
sd ..... Sand
sgl ..... Sand and gravel
ss ..... Sandstone
scap ..... Scapolite
shee ..... Scheelite
serp ..... Serpentine
sh ..... Shale
sid ..... Siderite
si ..... Silica
Ag ..... Silver
sl ..... Slate
sm ..... Smaltite
sod ..... Sodalite
spec ..... Specularite
sp ..... Sphalerite
spd ..... Spodumene
s ..... Sulphides
talc ..... Talc
Te ..... Tellurium
th ..... Thorite
Th ..... Thorium
ti ..... Titanite
Ti ..... Titanium
tour ..... Tourmaline
W ..... Tungsten
uran ..... Uraninite
U ..... Uranium
verm ..... Vermiculite
Zn ..... Zinc
zr ..... Zircon

ADDITIONS

*

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

PILOT HARBOUR NE

MINERAL OCCURRENCES			Source Min. Dep. Record	References in OGS Min. Dep. Cir. and Indus. Mineral Rpts.	Additional References and/or Remarks
Map Ref. Letter	(see Data Map) Name(s)	Mineralization			
A	Unnamed Occurrence	cp			-see ODM Map P. 506
B	Maple-Cameron Lakes Occurrence	IF		MRC 011 p. 415	-see ODM Map P. 506 -see ODM Map 2332
C	Unnamed Occurrence	Au			-see file 41N/14NW 0014

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																		
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus	Notes Corresp	Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data	or footnotes
1	Goetz, Alois (41N/13NE 0010-A1)	07																		
2	Noranda Exploration Co. Ltd. (41N/13NE 0011)												82	82						
3	Brass Ring Resources Ltd. (41N/13NE 0012)									83	83									
4	Villeneuve Resources Ltd. (41N/13NE 0013)									83	83									
5	Cotton Valley Resources Ltd. (41N/13NE 0014)									83	83									
6	Central Crude Ltd. (41N/14NW 0014)	83	83					85											N-1	

SEE PAGE 13-1,...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																			
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus	Notes Corresp	Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data		or footnotes
6	Central Crude Ltd. (41N/14NW 0012)									83	83										
7	Asarco of Canada Exploration Ltd. (St. Germain 0010)	72																			N-2 N-4
8	Noranda Exploration Company Ltd. (WP-Point Isacor-2)	87	87			87		87													N-3
9	Oneida Resources Ltd Villeneuve Resources Ltd. Alotta Resources Ltd. (WP-Pilot Harbour NE-1)									87	87										N-3
10	Acheron Resources Ltd.)4(WP-Pilot Harbour NE-2)									88	88										N-3

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																		
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Other Data or footnotes	Mag	EM	Rad	Mag	EM	Rad	IP	Self potential	Resistivity		
11	Central Crude Ltd. (WP-Pilot Harbour NE-3)		88			88			N-3											
12	Cream Silver Mines Ebony Gold Production (WP-Pilot Harbour NE-4)								N-3	88	88									
13	Dominion Explorers Inc. (WP-Pilot Harbour NE-5)								N-3	88	88									
14	Penn-Gold Resources Inc. (WP-Pilot Harbour NE-6)								N-3	88	88									
15	Alotta Resources Inc. (WP-Pilot Harbour NE-7)	88	88			88			N-3											
16	Villeneuve Resources Inc. (WP-Pilot Harbour NE-8)	88	88			88			N-3											

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																				
										Airborne			Ground								
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp		Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data		or footnotes
17	Tundra Gold Mines Ltd. (WP-David Lake-16)									89	89								N-3		

SEE PAGE 13-1,...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

● —— indicates core stored at Drill Core Library

PILOT HARBOUR NF

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
0	-by Scintrex Ltd. -for OGS (from Map 80481) -1980	-a. Scintrex HEM-802 electromagnetic system -b. Scintrex MAP-4 proton precession type magnetometer	30m	N-S	200m
0	-by Dighem Surveys and Processing Inc. -for OGS -1987-88	-a. Dighem 3 frequency electromagnetic system -b. Cesium magnetometer	EM-30m Mag-45m	45 225	200m
3	-by Aerodat Ltd. -for Brass Ring Resources Ltd. -1983	-a. Aerodat/Geonics 3 frequency electromagnetic system -b. Herz 2A VLF-EM system -c. Geometrics G-803 proton precession type magnetometer	60m	N-S	660'
4	-by Aerodat Ltd. -for Villeneuve Res. Ltd. -1983	-a. Aerodat/Geonics 3 frequency electromagnetic system -b. Herz 2A VLF-EM system -c. Geometrics G-803 proton precession type magnetometer	60m	N-S	660'

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
5	-by Aerodat Ltd. -for Cotton Valley Resources Ltd. -1983	-a. Aerodat/Geonics 3 frequency electromagnetic system -b. Herz 2A VLF-EM system -c. Geometrics G-803 proton precession type magnetometer	60m	N-S	660′
6	-by Aerodat Ltd. -for Central Crude Ltd. -1983	-a. Aerodat/Geonics 3 frequency electromagnetic system -b. Herz 2A VLF-EM system -c. Geometrics G-803 proton procession type magnetometer	60m	N-S	660′
9	-by H. Ferderber Geophysics Ltd. -for Oneida Resources Ltd., Villeneuve Resources Ltd., Alotta Resources Ltd. -1987	-a. GEM-GSM-9BA Overhauser proton precession type magnetometer -b. Herz Totem 2AG VLF-EM system	250′	N-S	440′
10	-by Teraquest Ltd. -for Acheron Resources Ltd. -1988	-a. Scintrex B/W 2321H8 cesium magnetometer -b. Herz Totem 2A VLF-EM system	100m	360	100m

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
12	-by Terraquest Ltd. -for Cream Silver Mines Ebony Gold Production -1988	-a. Scintrex B/W 2321H8 cesium magnetometer -b. Herz Totem 2A VLF-EM system	100m	360	100m
13	-by Aerodat Ltd. -for Dominion Explorers Inc. -1988	-a. Aerodat 3 frequency electromagnetic system -b. Herz Totem 2A VLF-EM system -c. Scintrex VIW 2321H8 cesium magnetometer	60m	000 180	125m
14	-by H. Ferderber Geophysics Ltd. -for Penn-Gold Resources Inc. -1988	-a. GSM-11 proton (Overhauser) magnetometer -b. Herz Totem 2A VLF-EM system	300'	340 160	328'
17	-by H. Ferderber Geophysics Ltd. -for Tundra Gold Mines Ltd. -1989	-a. GEM systems GSM-11 proton precession magnetometer -b. Herz Totem 2A VLF-EM system	300'	150 330	1250'

Map Site No.	GEOCHEMICAL SURVEY DATA		By	Reference(s)
	Type of survey	Analysis for		
1	Rock Sampling	Au, Ag, Cu, Pb, Zn, Mo	Central Crude Ltd.	file 41N/14NW 0014
2	Stream and Spring Sediment	Cu, Ni, Zn, Co, Mn and cold extractable heavy metals	Wolfe, W.J. for the OGS	ODM GR 158 and 6 Maps
3	Lake Sediment and Water Geochemical	Zn, Cu, Pb, Ni, Co, Ag, Mn, As, Mo, Fe, U, F	OGS-GSC	OGS OFR 5266
4	Soil Sampling	Au	Noranda Exploration Company Ltd.	WP-Point Isacor-2
5	Soil and Rock Sampling	Au (soil), Au, Ag, Cu, Zn, Pb, (rock)	Central Crude Ltd.	WP-Pilot Harbour NE-3
6	Soil Sampling	Au, Cu, Pb, Zn, Ar	Alotta Resources Inc.	WP-Pilot Harbour NE-7
7	Soil Sampling	Au, Cu, Pb, Zn, Ar	Villeneuve Resources Inc.	WP-Pilot Harbour NE-8

GEOCHRONOLOGY DATA – AGE DATING

Site No. on Map	Method	Material	Reference	Result

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist Office

(a) Aerial Photographs

1. 1"=1/4 mile, black & white; see addenda (p. 15-1) for details

(b) Photomosaics

(c) Satellite Imagery

1. Canada Centre for Remote Sensing Side Aperture Radar - H880175 (C)93, May 1988 1:50 000 (Black & White)

2. Canada Centre for Remote Sensing Side Aperture Radar - H880173 (C)85, May 1988 1:50 000 (Black & White)

3. Experimental Composite of Airborne Radar (SAR) and Total Field Aeromagnetics, SAR Data Acquired 24-May-88 by CCRS Radar Development Program. Total Magnetic Field Derived From Digital Archives of OGS Map 81143 R. B. Barlow. Processed at Ontario Centre for Remote Sensing/ MNR 10-Feb-89 1:50 000

4. Experimental Composite of Airborne Radar (SAR) and Total Field Aeromagnetics, SAR Data Acquired 24-May-88 by CCRS Radar Development Program. Total Magnetic Field Derived From Digital Archives of OGS Map 81143 R. B. Barlow. Processed at Ontario Centre for Remote Sensing/MNR 10-Feb-89 1:100 000

TOPOGRAPHIC MAPS (selected)			
Scale	Year	Name and/or Number	By
1: 50 000	1970	Michipicoten Island North: NTS 41N/13	Surveys and Mapping Branch: Department of Energy, Mines and Resources
1: 100 000	1979	Michipicoten Island: NTS 41N/NW	Surveys and Mapping Branch: Ministry of Natural Resources

NEWSPAPER CLIPPINGS FILE

PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	12/09/82		Cotton Valley acquires two gold properties
Northern Miner	02/14/83		Three projects underway in three gold or silver belts Brass Ring Resources Inc.
George Cross Newsletter	09/06/83		Significant gold occurrence at Mishibishu Lake reported Central Crude Ltd.
Northern Miner	09/15/83		Central Crude gets results at Mishibishu Lake
Northern Miner	11/03/83		Central Crude active several prospects
Northern Miner	09/07/87	7	Central Crude among big movers
Northern Miner	10/05/87	24	The Applegath Group of Companies-Mishibishu Lake area New Beginnings Resources Inc.
Northern Miner	11/16/87	A23	The Applegath Group of Companies-Mishibishu Lake area New Beginnings Resources Inc.
Northern Miner	11/16/87		Villeneuve in Mishibishu
Northern Miner	01/18/88		Noront Central Merger

NEWSPAPER CLIPPINGS FILE

PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	02/22/88	24	The Applegath Group of Companies-Mishibishu Lake area Oneida Resources Ltd.
Northern Miner	04/25/88	25	Antimony mine, gold potential have Dominion Explorers busy
Northern Miner	05/23/88	9	Central Crude takes a big jump
Northern Miner	05/30/88	24	The Applegath Group of Companies-Mishibishu area Villeneuve Resources Ltd.
Northern Miner	06/27/88	12	The Applegath Group-Update on the Mishibishu area Villeneuve Resources Ltd.
Northern Miner	08/01/88	24	A 12 page summary report on the Mishibishu Lake area is being updated and will be released shortly Villeneuve Resources Ltd.
George Cross Newsletter	08/10/88		Mishibishu gold belt entered Acheron Resources Ltd.
Northern Miner	09/05/88	1&2	Mishibishu rush compares to Hemlo Central Crude Ltd.
George Cross Newsletter	09/06/88		Cream Silver Mines Ltd.
Northern Miner	09/11/88	16	Villeneuve stakes granites, expands in Mishibshu camp
George Cross Newsletter	09/12/88		Claims acquired in Mihibishu Lake area Ebony Gold Corp.

PILOT HARBOUR NE

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
George Cross Newsletter	10/14/88		Acheron expands Mishibshu Lake gold belt holdings
George Cross Newsletter	12/01/88		Universal Trident Industries Ltd.

OGS/ODM GENERAL INDEX SEARCH

Words Searched:
Cairn Point
Campbell Creek
Floating Heart Bay
Floating Heart Creek
Ganely Harbour
Le Petit Mort Rocks
Maple Lake
Pilot Harbour
Pipe River
Pukaskwa River
Redsucker Harbour

Index Volume	Listing:	Report Volume	Part	Page
1	Floating Heart Creek, Lake Superior, Thunder Bay District			
	Agricultural land along	14	1	296
	Drainage area	14	1	285
	Fault at headwaters	14	1	311
	Iron Formation near	14	1	336
	Minor refs to	14	1	285,292
	Rocks	14	1	316
	Ganely Harbour, Lake Superior			
	Description of shores near	13		135
	High hills north of	14	1	281
	Uninhabited country near	13		147
	Pilot Harbour, E. of Pukaskwa River, L. Superior			
	Rocks on and near:	13		166
	granite	14	1	349
	keeweenawan	13		168
	Pipe R., L. Superior, Thunder Bay District	14	1	284,316
	Redsucker Harbour, L. Superior, Thunder Bay District			
	Rocks, dioritic	19		222
	essexite	19	1	225,227
	gabbro	19	1	224
	petrography	19		225,226
	syenite	19	1	211,219 221
	analysis	19	1	222
	Redsucker Lake, N. of L. Superior, Thunder Bay Dist.			
	Nepheline Syenite near	9		208

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing:	Report Volume	Part	Page
2	Maple Lake, Floating-heart Creek, L. Superior			
	Conglomerate S. of, photo	35	2	7
	Iron formation	I.O.		187
	ore	35	2	47
3	No listings			
4	No listings			
5	No Listings			
6	No Listings			
7	No Listings			
8	Pukaskwa Operation, Thunder Bay & Algoma Districts			
	Summary of Field Work 1968 by G. Bennett, P.C. Thurston & J.F. Giguere	MP 22		31-34
	Pukaskwa River Area, Thunder Bay District			
	geology	MP 17		21-22
	Ganely Harbour			
	Pukaskwa River Area, Thunder Bay District	GR 153		15
9	Pipe Lake			
	Pukaskwa River Area, Thunder Bay District	GR 153		53
	Pukaskwa Area, Algoma & Thunder Bay Districts			
	Geochem study of the area			
	Report on, by W.J. Wolfe	GR 158		
	Pukaskwa River Area, Algoma & Thunder Bay Districts			
	Report (quaternary) & map 5096 on, 1979 by John F. Gartner and D.F. McQuay	NOEGTS 72		

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Index Volume	Listing:	Report Volume	Part	Page
9	Pukaskwa - University Rivers Area, Algoma & Thunder Bay Districts			passim 39-53
	copper			
	Geology of the area			
	Report, maps 2332, 2333 & chart on, 1977	GR 153		
	by G. Bennett & P.C. Thurston	GR 153		passim 38-51
	gold	GR 153		passim 38-42
	iron	GR 153		40,44, 48
	zinc			

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Barlow, R. B.	1988	Total Magnetic Field Colour Image Developed from Digital Archives of the OGS, Wawa Area, Districts of Algoma, Thunder Bay & Sudbury	OGS Geophysical/ Geochemical Series Map 81143	1: 100 000
Barlow, R. B.	1988	Calculated Second Vertical Derivative Colour Image Developed from Digital Archives of the OGS, Wawa, Area, Districts of Algoma, Thunder Bay & Sudbury	OGS Geophysical/ Geochemical Series Map 81144	1: 100 000
Barlow, R. B.	1988	Directly Shadowed Total Magnetic Field Colour Image, Developed from Digital Archives of the OGS, Wawa Area, Districts of Algoma, Thunder Bay & Sudbury	OGS Geophysical/ Geochemical Series Map	1: 100 000
Bell, J. M.	1905	Iron Ranges of Michipicoten (West)	OBM AR Vol. 14, Pt. 1, with Map 14a	p. 278-355 1: 126 720
Bennett, G. Thurston, P. C.	1977	Geology of the Pukaskwa - University Rivers Area, Districts of Algoma and Thunder Bay	ODM GR 153 and 2 Maps	60 pages 1" = 1mile
Bennett, G. Thurston, P. C.	1972	Operation Pukaskwa, District of Algoma and Thunder Bay, Ontario	OGS OFR 5073	93 pages

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Bennett, G. Thurston, P. C. Giguere, J. F.	1972	Pukaskwa River Sheet	ODM Map 2332	1" = 1mile
Bennett, G. Thurston, P. C. Giguere, J. F.	1969	Operation Pukaskwa	ODM Prelim. Map P. 541	1" = 2miles
Bennett, G. Thurston, P. C. Giguere, J. F.	1969	Operation Pukaskwa, Pukaskwa River Sheet, Districts of Thunder Bay and Algoma	ODM Prelim. Map P. 506	1" = 1mile
Bennett, G. Thurston, P. C. Giguere, J. F.	1968	Summary of Field Work by the OGS, No. 12, Operation Pukaskwa, Districts of Thunder Bay and Algoma	OGS MP 22	p. 31-34
Bowen, R. P.	1985	Precambrian Geology of the Mishibishu Lake Area (Revised 1987)	OGS OFM 038	1" = 1/4mile
Bowen, R. P. Logothetis, J.	1985	Mishibishu Lake Area, Districts of Algoma and Thunder Bay	OGS MP 126	p. 78-82
owen, R. P. ogothetis, J. eather, K. B.	1986	Mishibishu Lake Area, South Central Section	OGS Prelim Map P. 2971	1" = 1/4mile

SELECTED REFERENCES			Reference	Map Scale and/or Reprt/Pages
Author	Date	Title		
Coker, W. B. Shilts, W. W.	1979	Lacustrine Geochemistry Around the North Shore of Lake Superior: Implications for Evaluation of the Effects of Acid Precipitation	GSC Paper 79-1C	p. 1-15
Coleman, A. P.	1899	Copper Regions of the Upper Lakes, Ont.	OBM AR Vol. 8, Pt. 2	p. 121-174
Coleman, A. P.	1899	Map of the Western Part of the Michipicoten Mining Division, Algoma District	OBM Map 8b	1: 253 440
Gartner, J. F. McQuay, D. F.	1979	Pukaskwa River Including Michipicoten Island: Northern Ontario Geology Terrain Study	NOEGTS Study 72 with Map 5096	14 pages 1: 100 000
Giblin, P. E.	1967	Annual Report of the Resident Geologist's Section Pt. 2, Sault Ste. Marie District	OGS MP 17	p. 21-22
Heather, K. B.	1985	Gold Showings of the Mishibishu Lake Area, Thunder Bay District	OGS MP 126	p. 83-89
Logan, W. E. Murray, A.	1847	North Shore of Lake Superior	GSC Rpt. of Progress 1846-7	p. 5-35

SELECTED REFERENCES			Reference	Map Scale and/or Reprt/Pages
Author	Date	Title		
Milne, V.G. et al	1972	Manitouwadge - Wawa Sheet	ODM Map 2220	1"=4miles
ODM-GSC	1963	Aeromagnetic Map: Michipicoten Island	ODM-GSC Aeromagnetic Series Map 2164G	1"=1mile
OGS-GSC	1979	Regional Lake Sediment and Water Geochemical Reconnaissance, Eastern Shore Lake Superior	OGS OFR 5266 and 16 Maps	56 pages 1:250 000
OGS	1987	Airborne Electromagnetic and Total Intensity Magnetic Survey, Wawa Area, Districts of Algoma, Sudbury and Thunder Bay	OGS Geophysical/ Geochemical Series Map 81023	1:20 000 2 Maps
Reid, R.G. Reilly, B.A.	1987	Mishibishu Lake Area, Districts of Algoma and Thunder Bay	OGS MP 137	p. 138-145
Scintrex Ltd.	1980	Airborne Electromagnetic and Total Intensity Magnetic Survey, Homer Township Area, Western Part, District of Thunder Bay	OGS Geophysical/ Geochemical Series Map 80480	1:20 000
Springer, Janet	1977	Ontario Mineral Potential: Michipicoten Sheet	OGS Prelim. Map P. 1516	1:250 000

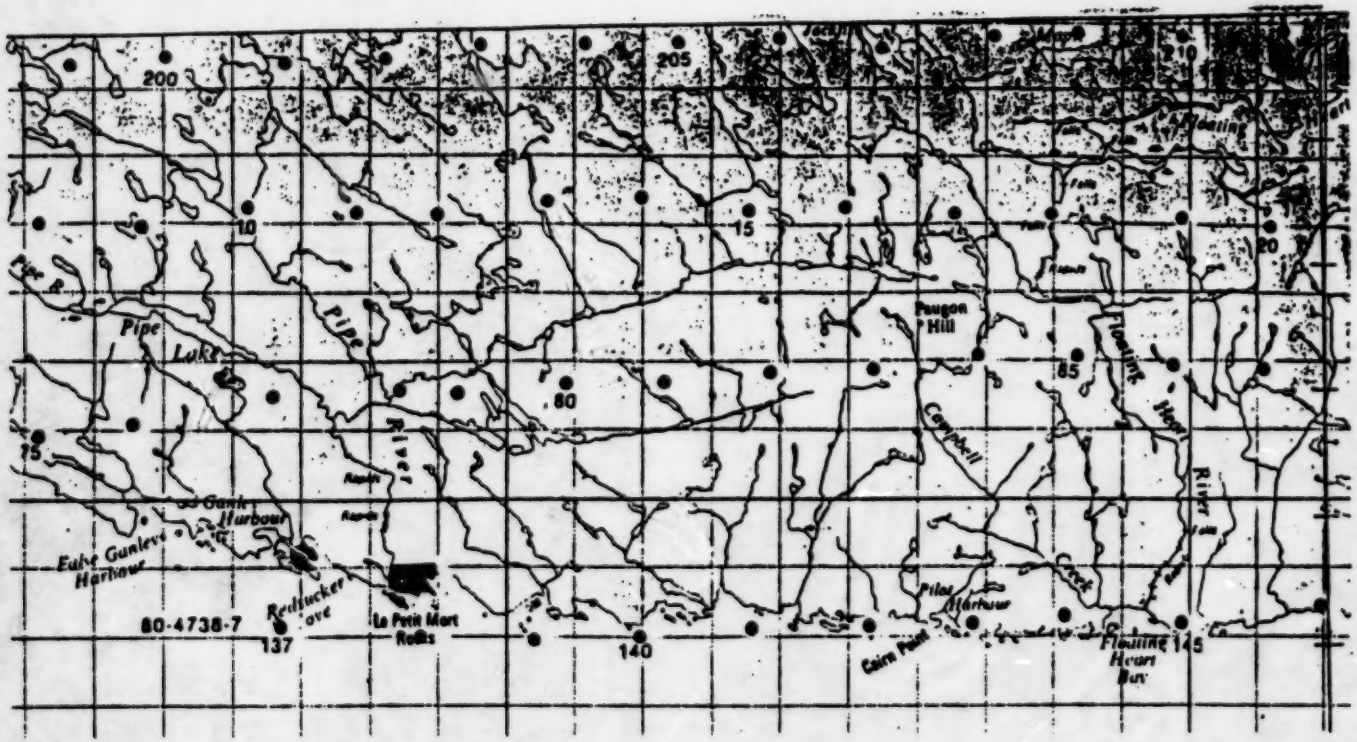
SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Tortosa, D. J. J. et al	1988	Wawa Resident Geologist's District-1988	OGS MP 142	p. 181-206
Wadge, D. R.	1980	Airborne Electromagnetic - Magnetic Surveys by Scintrex for the OGS	OGS MP 96 Summary of Field Work	p. 150
Wolfe, W. J.	1976	Regional Geochemical Reconnaissance of Archean Metavolcanic - Metasedimentary Belts in the Pukaskwa Region	ODM GR 158	54 pages
Wolfe, W. J.	1973	Regional Geochemical Reconnaissance of Archean Metavolcanic - Metasedimentary Belts in the Pukaskwa Region, Algoma and Thunder Bay Districts	OGS OFR 5091	62 pages
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Cold Extractable Heavy Metals in Stream and Spring Sediments	ODM Prelim. Map P. 508	1"=1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Copper in Stream and Spring Sediments	ODM Prelim. Map P. 509	1"=1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Zinc in Stream and Spring Sediments	ODM Prelim. Map P. 510	1"=1mile

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Manganese in Stream and Spring Sediments	ODM Prelim. Map P. 511	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Nickel in Stream and Spring Sediments	ODM Prelim. Map P. 512	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Cobalt in Stream and Spring Sediments	ODM Prelim. Map P. 513	1" = 1mile

Note #	NOTES
1	This file (41N/14NW 0014) also contains a sampling program completed in 1983.
2	This file (St. Germain 0010) contains a compilation map which suggests that an airborne electromagnetic survey was flown over the work area. The anomalies have been plotted on exploration data map B-1, accompanying this report. No further information is available on this survey.
3	The following is a list of Wawa file numbers with their corresponding Toronto (Assessment Files Research Office) file numbers: WP-Pilot Harbour NE-1 - 2.10396 WP-Pilot Harbour NE-2 - 2.11753 WP-Pilot Harbour NE-3 - 2.11982 WP-Pilot Harbour NE-4 - 2.11966 WP-Pilot Harbour NE-5 - 2.11932 WP-Pilot Harbour NE-6 - 2.11209 WP-Pilot Harbour NE-7 - 2.12389 WP-Pilot Harbour NE-8 - 2.12387 WP-Point Isacor-2 - 2.10277 WP-David Lakes-16 - 2.12674

ADDENDA

Map showing air photos available for viewing at Wawa Resident Geologist's Office, see p.9-1



CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:
Wawa Resident Geologist's Office
Ministry of Northern Development and Mines
Helen Mine Road
P.O. Box 530
Wawa, Ontario
P0S 1K0
705-856-4883

PILOT HARBOUR NE

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 .... of text**

- ■ Reference number is always inside work area outlined. See listing in text pages.
- □ Small area of exploration data
- ■ File covers whole township or area
- □

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: See pages 3-1,2.... of text

- ■ Mineral occurrence at surface, with reference letter
- □ Mineral occurrence with shaft, depth given with reference letter
- □ Mineral occurrence reported but exact location uncertain, with reference letter
- □ Mineralized float with reference letter
- □ Mineral occurrence encountered in drilling, with reference letter
- □

DRILLHOLES: See pages 5-1,2.... of text

- □ Location of single drillhole, with reference number
- □ Location of group of closely spaced drillholes, with reference number
- □ Drillhole, exact location uncertain, with reference number
- □ Property with underground drillholes in this general area, with reference number
- □ Property with drillholes which have not been plotted on map, with reference number
- □ Reverse circulation drillhole; churn drilling, with reference number
- □

GEOCHEMICAL: See pages 7-1,2....of text

- ■ Geochemical sample site, with reference number
- ■ Area of geochemical sampling, with reference number
- □

GEOPHYSICAL ANOMALIES

Airborne Surveys: See pages 6-1,2.... of text

- □ Airborne magnetic anomaly
- ■ Airborne electromagnetic anomaly Length of anomaly along flight line
- ■ Airborne electromagnetic anomaly Location of anomaly along flight line
- ■ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ■ Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
- □ Airborne radiometric anomaly

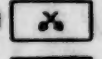
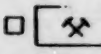
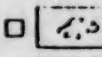
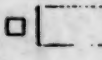
Ground Surveys

- □ Ground magnetic anomaly
- ■ Ground electromagnetic anomaly (VL - Vertical loop, HL - Horizontal loop VLF - Very low freq.; Turam; JEM Crone Em - 16)
- □ Ground radiometric anomaly
- □ Induced polarization anomaly
- □ Self potential anomaly
- □ Audio-frequency magnetic anomaly (total intensity)
- □ Resistivity anomaly
- □ Gravity anomaly
- □

GEOCHRONOLOGICAL DATA: See page 8 of text

- □ Age dating material sampling site, with reference number
- □

MISCELLANEOUS DATA

- □ Trenching, pit
- □ Adit
- □  Sand and/or gravel pit
- □
- □  Rock quarry
- □  Open pit
- □ 

MAPS
NOT
FILMED

CARTES
OMISES